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EMC TEST REPORT

Report No.	: EME-050365
Model No.	: WAP252, WAP 253
Issued Date	: May 6, 2005

- Applicant : AboCom Systems, Inc. 1F, No. 21, Yanfa 2nd Road, SBIP, Hsinchu City 300, Taiwan
- Test By : Intertek Testing Services Taiwan Ltd. No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan

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Project Engineer

Jackey Chiu

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Reviewed By

my Lin

Jerry Liu



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Summary of Tests

Wireless Router-Model: WAP252 FCC ID: MQ4WAP253

Test	Reference	Results
Minimum 6dB Bandwidth test	15.247(a)(2)	Complies
Maximum Output Power test	15.247(b)	Complies
Radiated Spurious Emission test	15.205, 15.209	Complies
Power Spectrum Density test	15.247(d)	Complies
Power Line Conducted Emission test	15.207	Complies



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1. General information

1.1 Identification of the EUT

Applicant	: AboCom Systems, Inc.
Product	: Wireless Router
Model No.	: WAP252
FCC ID.	: MQ4WAP253
Frequency Range	: 2412MHz ~ 2462MHz
Channel Number	: 11 channels
Frequency of Each Channel	: 2412MHz, 2417MHz, 2422MHz, 2427MHz, 2432MHz, 2437MHz, 2442MHz, 2447MHz, 2452MHz, 2457MHz, 2462MHz
Type of Modulation	: DSSS, OFDM
Rated Power	: 230Vac, 50Hz with adapter (Model: MWD-1200800E)
Data Cable	: RJ-45 UTP Cat.5 3meter \times 2
Power Cord	: N/A
Sample Received	: Apr. 20, 2005
Test Date(s)	: Apr. 29, 2005 ~ May 4, 2005

A FCC DoC report has been generated for the client.

1.2 Additional information about the EUT

The EUT is a Wireless Router, and was defined as radio and telecommunications terminal equipment.

We verified that WAP253 is series model to WAP252 (EUT), for these models are identical in hardware aspect, and the different is in memory size.

For more detail features, please refer to User's manual as file name "Installation guide.pdf"



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1.3 Antenna description

The antenna is affixed to the EUT using a unique connector, which allows for replacement of a broken antenna, but DOES NOT use a standard antenna jack or electrical connector.

Antenna Gain: 2dBi maxAntenna Type: Dipole antennaConnector Type: Reverse

1.4 Peripheral equipments

Peripherals	Manufacturer	Product No.	Serial No.
Notebook PC	DELL	PP02X	8Y210A04
Notebook PC	DELL	PP05L	CN-0G5152-48643-498-6810
Notebook PC	IBM	R51	99XML12



2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Section § 15.205、 §15.207、 §15.209、 §15.247 and ANSI C63.4/2003.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

The EUT was supplied with adapter and run the test program "MP_TEST.exe" under windows OS, which provide by manufacturer.

During conducted emission test, the EUT was in normal communicating with IBM Notebook PC. While in other test, it worked in the status of continuously transmitting.

With individual verifying, the maximum output power were found at 11Mbps data rate for 802.11b mode and 54Mbps data rate for 802.11g mode. The final tests were executed under these conditions recorded in this report individually.



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2.3 Test equipment

Equipment	Brand	Frequency range	Model No.	Intertek ID No.	Next Cal. Date
EMI Test Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCS 30	EC303	04/13/2006
EMI Test Receiver	Rohde & Schwarz	20Hz~26.5GHz	ESMI	EC317	07/14/2005
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30	EC353	07/13/2005
Spectrum Analyzer	Rohde & Schwarz	20Hz~40GHz	FSEK 30	EC365	10/18/2005
Horn Antenna	EMCO	1GHz~18GHz	3115	EC338	08/16/2005
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170	EC351	07/08/2005
Bilog Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9160	EC368	05/20/2005
Pre-Amplifier	MITEQ	100MHz~26.5GHz	919981	EC373	4/13/2006
Pre-Amplifier	MITEQ	26GHz~40GHz	828825	EC374	1/28/2005
Wideband Peak Power Meter/ Sensor	Anritsu	100MHz~18GHz	ML2497A/ MA2491A	EC396	10/18/2005
Controller	HDGmbH	N/A	HD 100	EP317-1	N/A
Antenna Tower	HDGmbH	N/A	MA 240	EP317-2	N/A
Turn Table	HDGmbH	N/A	DS 420S	EP317-3	N/A
LISN	Rohde & Schwarz	9KHz~30MHz	ESH3-Z5	EC344	01/14/2006

Note: The above equipments are within the valid calibration period.

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3. Minimum 6dB Bandwidth test

3.1 Operating environment

Temperature:23Relative Humidity:60Atmospheric Pressure:1023hPa

3.2 Test setup & procedure

The minimum 6dB bandwidth per FCC $\frac{15.247(a)(2)}{a}$ was measured using a 50 ohm spectrum analyzer with the resolutions bandwidth set at 100kHz, the video bandwidth set at 300kHz, and the SPAN>>RBW. The test was performed at 3 channels (lowest, middle and highest channel). The minimum 6-dB modulation bandwidth is in the following Table.

3.3 Measured data of Minimum 6dB Bandwidth test results

Test Mode: 802.11b(DSSS Modulation) operating mode

Channel	Frequency (MHz)	Bandwidth (MHz)	Limit
1 (lowest)	2412	10.14	> 500kHz
6 (middle)	2437	10.18	> 500kHz
11 (highest)	2462	10.18	> 500kHz

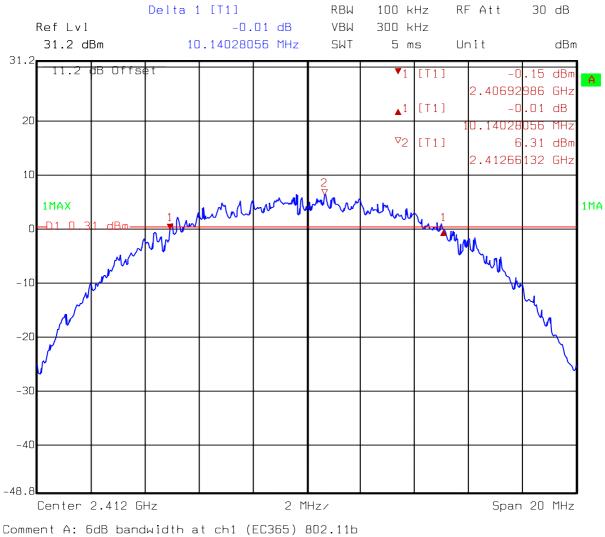
Test Mode: 802.11g(OFDM Modulation) operating mode

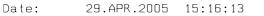
Channel	Frequency (MHz)	Bandwidth (MHz)	Limit
1 (lowest)	2412	15.55	> 500kHz
6 (middle)	2437	15.27	> 500kHz
11 (highest)	2462	15.27	> 500kHz

Please see the plot below.



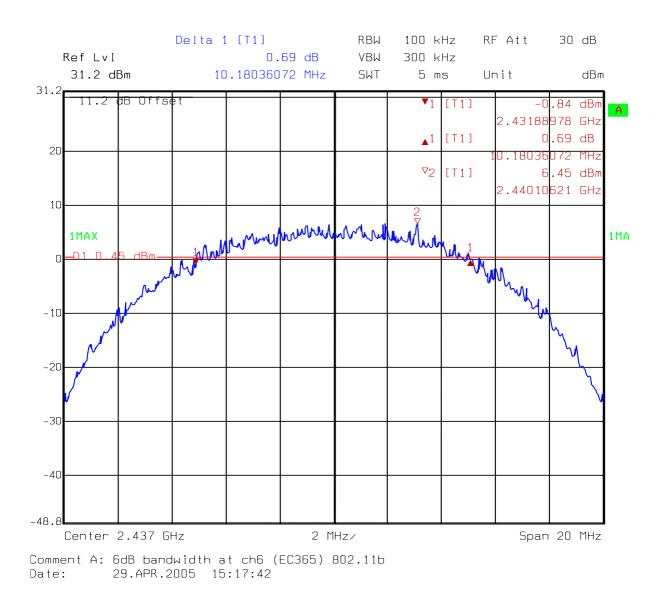
Test Mode: 802.11b(DSSS Modulation) operating mode





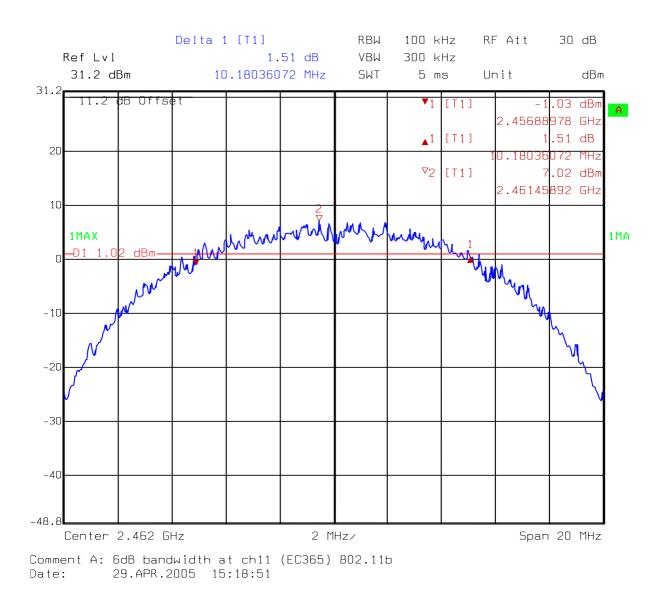


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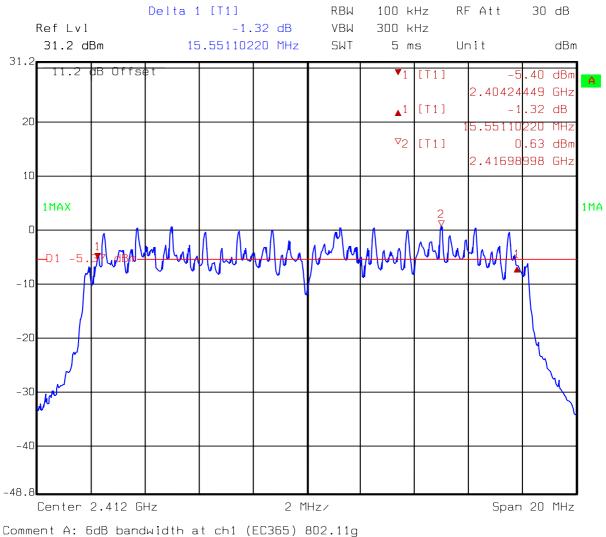


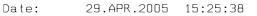
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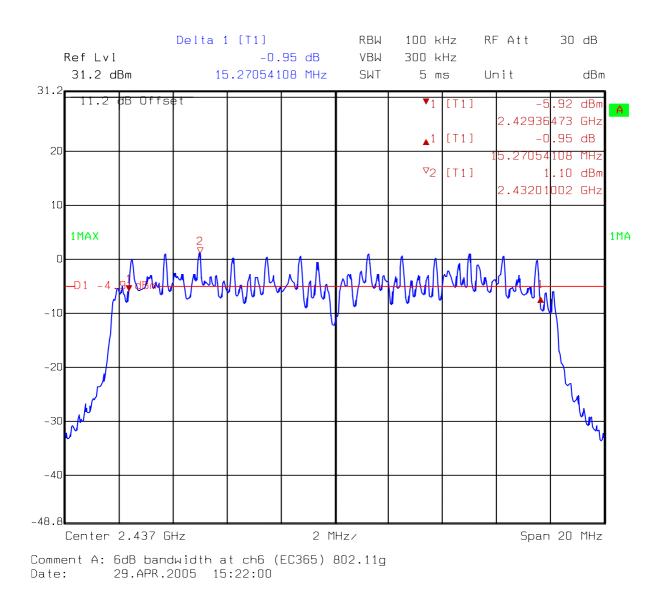
Test Mode: 802.11g(OFDM Modulation) operating mode





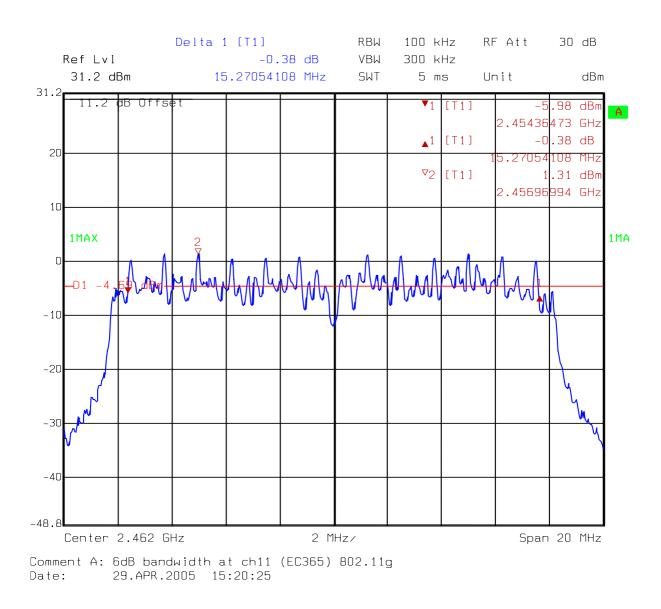


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4. Maximum Output Power test

4.1 Operating environment

Temperature:23Relative Humidity:58Atmospheric Pressure:1023hPa

4.2 Test setup & procedure

The power output per FCC §15.247(b) was measured on the EUT using a 50 ohm SMA cable connected to peak power meter via power sensor. Power was read directly and cable loss correction (1.22 dB) was added to the reading to obtain power at the EUT antenna terminals. The test was performed at 3 channels (lowest, middle and highest channel).

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4.3 Measured data of Maximum Output Power test results

Channel	Freq.	C.L.	C.L. Reading		Peak Output wer	Limit
	(MHz)	(dB)	(dBm)	(dBm)	(mW)	(W)
1 (lowest)	2412	1.22	19.23	20.45	110.92	1
6 (middle)	2437	1.22	19.54	20.76	119.12	1
11 (highest)	2462	1.22	19.76	20.98	125.31	1

Test Mode: 802.11b(DSSS Modulation) operating mode

Remark:

Conducted Peak Output Power = Reading + C.L.

Test Mode: 802.11b(DSSS Modulation) operating mode

Channel	Freq.	C.L. Reading		eq. C.L. Reading Power			-	Limit
	(MHz)	(dB)	(dBm)	(dBm)	(mW)	(W)		
1 (lowest)	2412	1.22	21.65	22.87	193.64	1		
6 (middle)	2437	1.22	21.66	22.28	169.04	1		
11 (highest)	2462	1.22	21.65	22.87	193.64	1		

Remark:

Conducted Peak Output Power = Reading + C.L.

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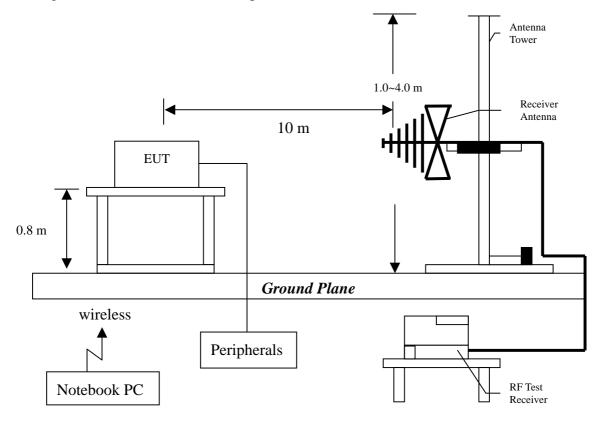
5. Radiated Emission test

5.1 Operating environment

Temperature:22Relative Humidity:51Atmospheric Pressure:1023hPa

5.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emissions were invested cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1MHz RBW/VBW) recorded also on the report.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

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The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

The EUT configuration please refer to the "Spurious set-up photo.pdf".

5.3 Emission limits

The spurious Emission shall test through the 10th harmonic. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Frequency (MHz)	Limits (dB µ V/m@3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:

- 1. In the above table, the tighter limit applies at the band edges.
- 2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81. Expanded uncertainty (k=2) of radiated emission measurement is 4.98 dB.



5.4 Radiated spurious emission test data

The radiated spurious emissions at

Frequency(MHz)	Margin
63.950	-2.66
250.000	-4.10
250.630	-4.62

are less than uncertainty. This is within the stated measurement uncertainty, this may affect compliance determined in other test arrangements.

5.4.1 Measurement results: frequencies equal to or less than 1 GHz

The test was performed on EUT under 802.11b continuously transmitting mode. Channel 1, 6, 11 were verified. The worst case occurred at 802.11b Tx channel 1.

EUT	: WAP252
Worst Case	: 802.11b Tx at low channel

Frequency	Spectrum	Antenna	Correction	Reading	Corrected	Limit	Margin	Antenna	Turn Table
	Analyzer	Polariz.	Factor		Level	@ 3 m		high	angle
(MHz)	Detector	(H/V)	(dB/m)	(dBuV)	(dBuV)	(dBuV)	(dB)	(m)	(degree)
33.880	QP	V	12.61	19.65	32.26	40.00	-7.74	1.02	262
48.430	QP	V	12.88	17.52	30.40	40.00	-9.60	1.16	221
55.220	QP	V	12.83	20.55	33.38	40.00	-6.62	1.00	256
63.950	QP	V	11.49	25.85	37.34	40.00	-2.66	1.03	58
106.630	QP	V	8.00	26.53	34.53	43.50	-8.97	1.05	62
250.230	QP	V	12.35	25.46	37.81	46.00	-8.19	1.56	336
55.220	QP	Н	13.77	12.66	26.43	40.00	-13.57	4.00	168
106.630	QP	Н	10.03	23.04	33.07	43.50	-10.43	3.88	155
140.580	QP	Н	13.26	16.16	29.42	43.50	-14.08	3.69	241
170.650	QP	Н	13.38	16.45	29.83	43.50	-13.67	3.51	258
197.810	QP	Н	10.88	18.34	29.22	43.50	-14.28	3.30	333
250.000	QP	Н	12.62	29.28	41.90	46.00	-4.10	2.65	62

Remark:

1.Corrected Level = Reading Level + Correction Factor

2.Correction Factor = Antenna Factor + Cable Loss

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The test was performed on EUT under 802.11g continuously transmitting mode. Channel 1, 6, 11 were verified. The worst case occurred at 802.11g Tx channel 1.

EUT: WAP252Worst Case: 802.11g Tx at low channel

Frequency	Spectrum	Antenna	Correction	Reading	Corrected	Limit	Margin	Antenna	Turn Table
	Analyzer	Polariz.	Factor		Level	@ 3 m		high	angle
(MHz)	Detector	(H/V)	(dB/m)	(dBuV)	(dBuV)	(dBuV)	(dB)	(m)	(degree)
33.850	QP	V	12.61	20.53	33.14	40.00	-6.86	1.02	108
55.220	QP	V	12.83	21.65	34.48	40.00	-5.52	1.00	360
63.950	QP	V	11.49	20.75	32.24	40.00	-7.76	1.01	221
88.000	QP	V	7.64	13.71	21.35	40.00	-18.65	1.01	251
106.630	QP	V	8.00	26.73	34.73	43.50	-8.77	1.04	269
250.020	QP	V	12.35	24.99	37.34	46.00	-8.66	1.54	255
55.220	QP	Н	13.77	12.95	26.72	40.00	-13.28	3.85	148
88.000	QP	Н	8.21	9.45	17.66	40.00	-22.34	3.65	254
106.630	QP	Н	10.03	24.16	34.19	43.50	-9.31	3.57	274
140.580	QP	Н	13.26	16.95	30.21	43.50	-13.29	3.62	36
171.620	QP	Н	13.25	17.17	30.42	43.50	-13.08	3.88	225
250.630	QP	Н	12.62	28.76	41.38	46.00	-4.62	3.00	16

Remark:

1.Corrected Level = Reading Level + Correction Factor

2.Correction Factor = Antenna Factor + Cable Loss



5.4.2 Measurement results: frequency above 1GHz

EUT : WAP252 Test Condition : 802.11b Tx at channel 1

Frequency	Spectrum	Antenna	Preamp	Correction	Reading	Corrected	Limit	Margin	Antenna	Turn Table
	Analyzer	Polariz.		Factor		Level	@ 3 m		high	angle
(MHz)	Detector	(H/V)	(dB)	(dB/m)	(dBuV)	(dBuV)	(dBuV)	(dB)	(m)	(degree)
4824.00	PK	V	36.07	41.64	52.41	57.98	74	-16.02	1.01	106.00
4824.00	AV	V	36.07	41.64	37.47	43.04	54	-10.96	1.01	106.00
4824.00	РК	Н	36.07	41.64	52.04	57.61	74	-16.39	1.63	305.00
4824.00	AV	Н	36.07	41.64	37.26	42.83	54	-11.17	1.63	305.00

Remark:

- 1. Corrected Level = Reading + Correction Factor Preamp
- 2. Correction Factor = Antenna Factor + Cable Loss
- 3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level. (

Noise floor level is :

For PK: 1GHz-3GHz: 20dBuV 3GHz-14GHz: 27dBuV 14GHz-26.5GHz: 39dBuV



EUT : WAP252 Test Condition : 802.11b Tx at channel 6

Frequency	Spectrum	Antenna	Preamp	Correction	Reading	Corrected	Limit	Margin	Antenna	Turn Table
	Analyzer	Polariz.		Factor		Level	@ 3 m		high	angle
(MHz)	Detector	(H/V)	(dB)	(dB/m)	(dBuV)	(dBuV)	(dBuV)	(dB)	(m)	(degree)
4876.00	РК	V	36.07	41.64	55.6	61.17	74	-12.83	1.01	108.00
4876.00	AV	V	36.07	41.64	39.72	45.29	54	-8.71	1.01	108.00
9748.00	PK	V	34.28	48.44	41.12	55.28	74	-18.72	1.01	23.00
9748.00	AV	V	34.28	48.44	27.36	41.52	54	-12.48	1.01	23.00
4876.00	PK	Н	36.07	41.64	53	58.57	74	-15.43	1.96	318.00
4876.00	AV	Н	36.07	41.64	38.44	44.01	54	-9.99	1.96	318.00

Remark:

- 1. Corrected Level = Reading Level + Correction Factor Preamp
- 2. Correction Factor = Antenna Factor + Cable Loss
- 3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK: 1GHz-3GHz: 20dBuV 3GHz-14GHz: 27dBuV 14GHz-26.5GHz: 39dBuV



EUT : WAP252 Test Condition : 802.11b Tx at channel 11

Frequency	Spectrum	Antenna	Preamp	Correction	Reading	Corrected	Limit	Margin	Antenna	Turn Table
	Analyzer	Polariz.		Factor		Level	@ 3 m		high	angle
(MHz)	Detector	(H/V)	(dB)	(dB/m)	(dBuV)	(dBuV)	(dBuV)	(dB)	(m)	(degree)
4924.00	РК	V	36.07	41.64	58.47	64.04	74	-9.96	1.02	72.00
4924.00	AV	V	36.07	41.64	42	47.57	54	-6.43	1.02	72.00
4924.00	РК	Н	36.07	41.64	55.57	61.14	74	-12.86	1.64	308.00
4924.00	AV	Н	36.07	41.64	40.11	45.68	54	-8.32	1.64	308.00

Remark:

- 1. Corrected Level = Reading Level + Correction Factor Preamp
- 2. Correction Factor = Antenna Factor + Cable Loss
- 3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK: 1GHz-3GHz: 20dBuV 3GHz-14GHz: 27dBuV 14GHz-26.5GHz: 39dBuV



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EUT : WAP252 Test Condition : 802.11g Tx at channel 1, 6, 11

Test Result: No spurious emission was found above the spectrum analyzer's noise floor. The noise floor are listed as below:

For PK: 1GHz-3GHz: 20dBuV 3GHz-14GHz: 27dBuV 14GHz-26.5GHz: 39dBuV

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6. Power Spectrum Density test

6.1 Operating environment

Temperature:23Relative Humidity:58Atmospheric Pressure1023hPa

6.2 Test setup & procedure

The power spectrum density per FCC §15.247(d) was measured from the antenna port of the EUT using a 50ohm spectrum analyzer with the resolution bandwidth set at 3kHz, the video bandwidth set at 10kHz, a span of 1.5 MHz, and the sweep time set at 500 seconds. Power Density was read directly and cable loss (1.22dB)/external attenuator (10dB) correction was added to the reading to obtain power at the EUT antenna terminals. The test was performed at 3 channels (lowest, middle and highest channel). The Power Spectral Density measured result is in the following table.

6.3 Measured data of Power Spectrum Density test results

Test Mode: 802.11b (DSSS Modulation) operating mode

Channel	Frequency (MHz)	Power spectrum density (dBm)	Limit (dBm)
1 (lowest)	2412	-1.78	8
6 (middle)	2437	1.17	8
11 (highest)	2462	-2.32	8

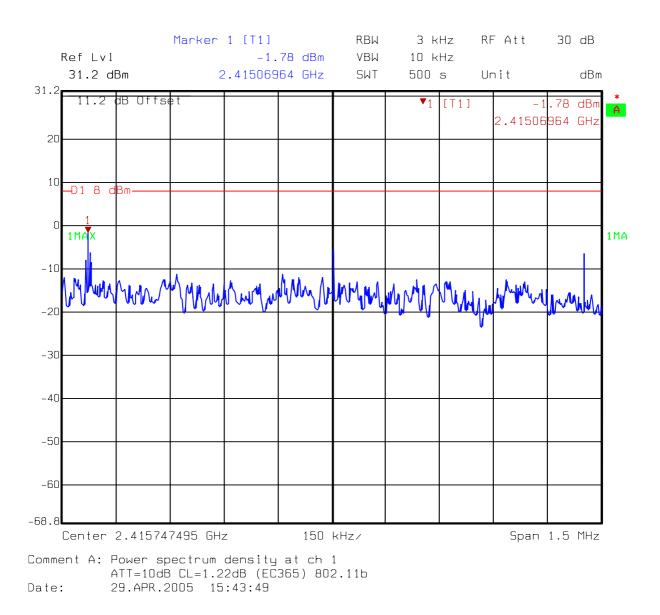
Test Mode: 802.11g (OFDM Modulation) operating mode

Channel	Frequency	Power spectrum density	Limit
	(MHz)	(dBm)	(dBm)
1 (lowest)	2412	-8.36	8
6 (middle)	2437	-7.71	8
11 (highest)	2462	-6.94	8

Please see the plot below.

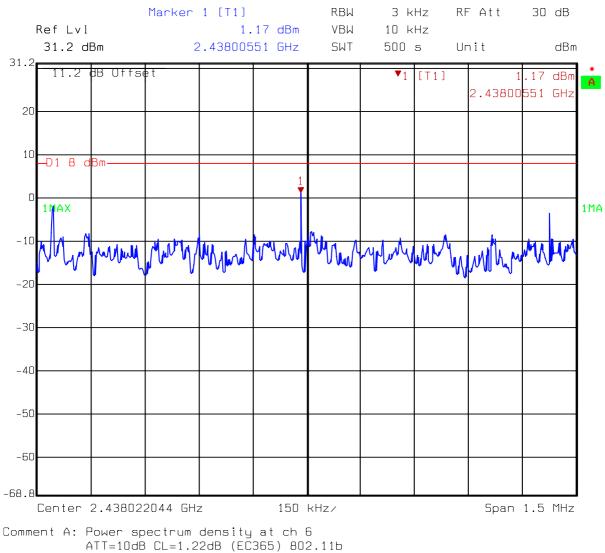


Test Mode: 802.11b(DSSS Modulation) operationg mode





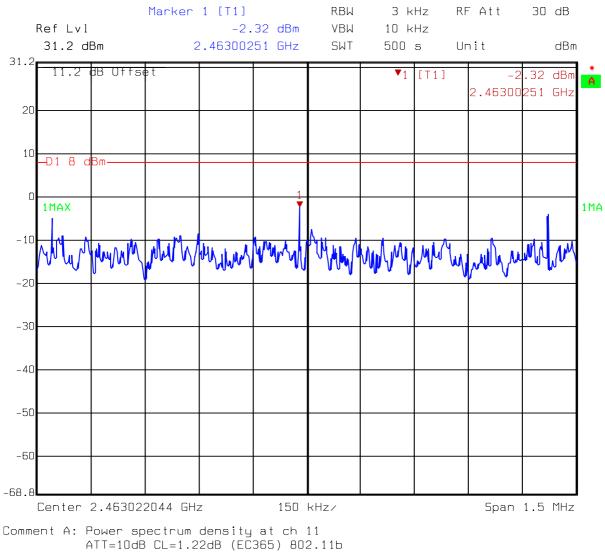
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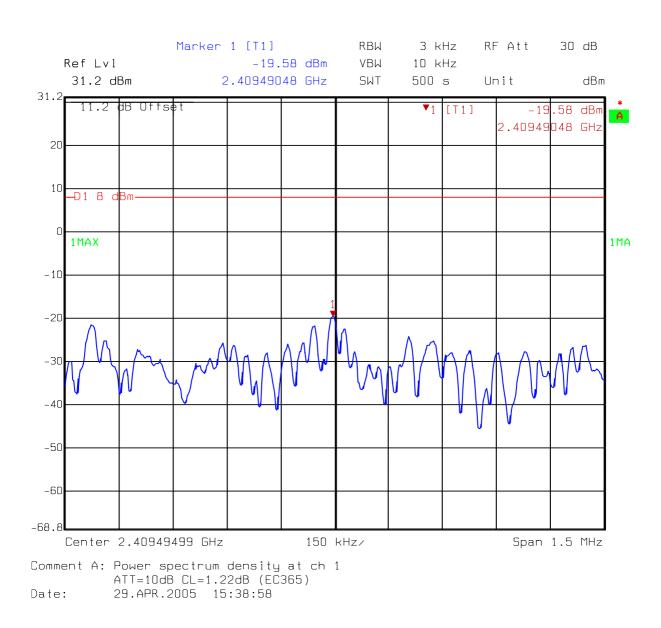


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Date: 29.APR.2005 15:42:50

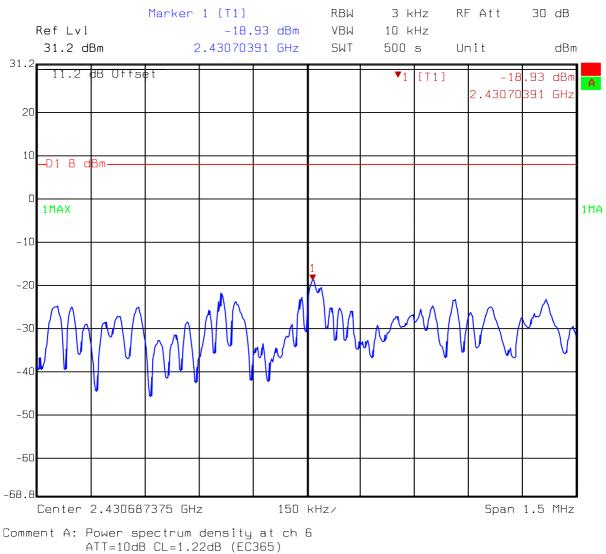




Test Mode: 802.11g(OFDM Modulation) operationg mode



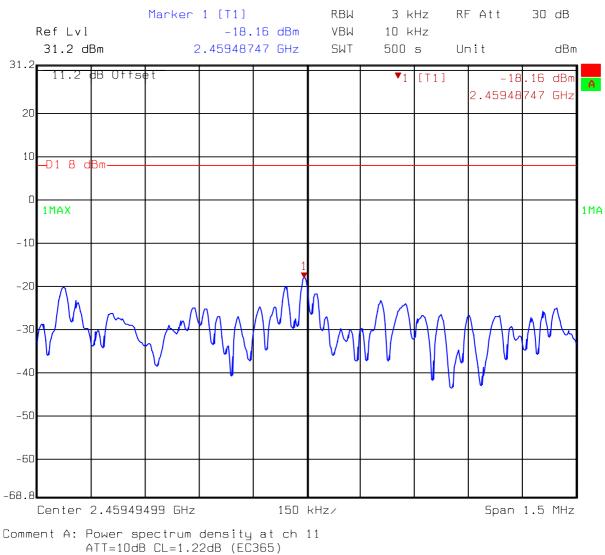
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Date: 29.APR.2005 15:36:30



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7. Emission on the band edge §FCC 15.247(C)

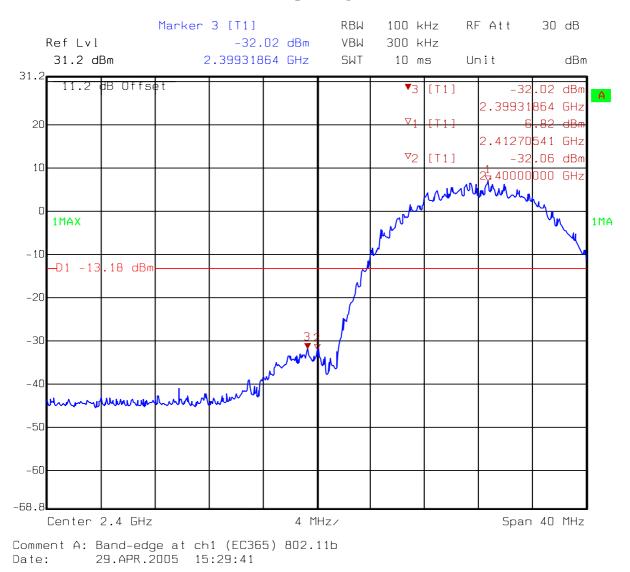
In any 100kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 KHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Please see the plot below.



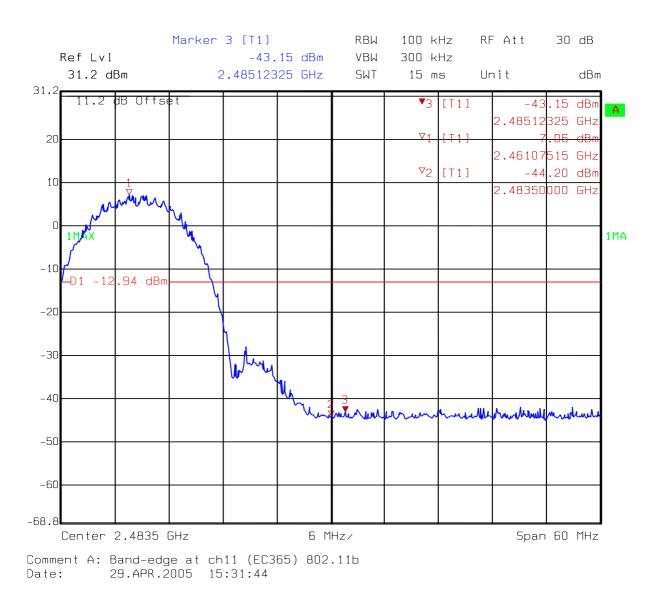
7.1 Band-edge (Conducted method)

Test Mode: 802.11b (DSSS Modulation) operating mode

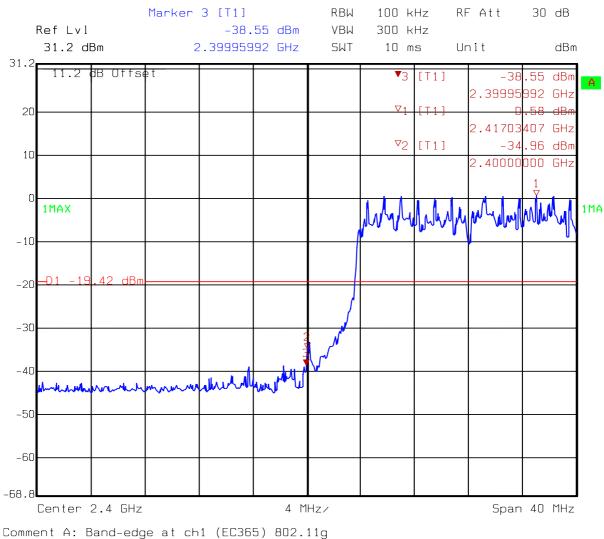




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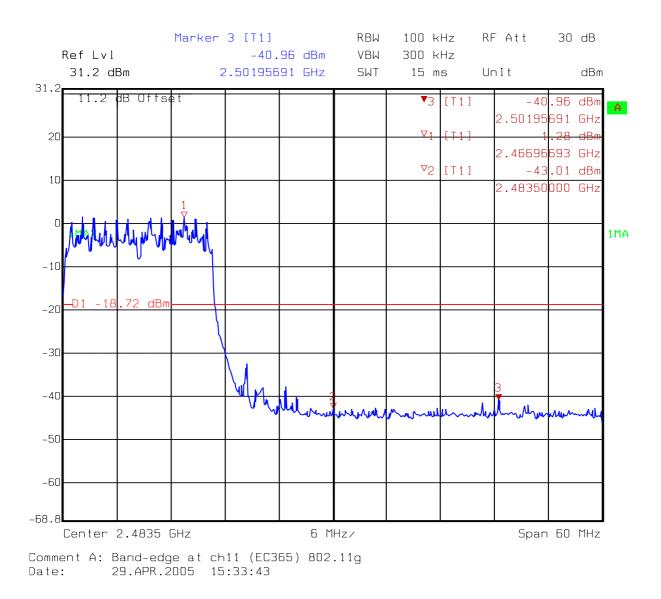


Test Mode: 802.11g (OFDM Modulation) operating mode





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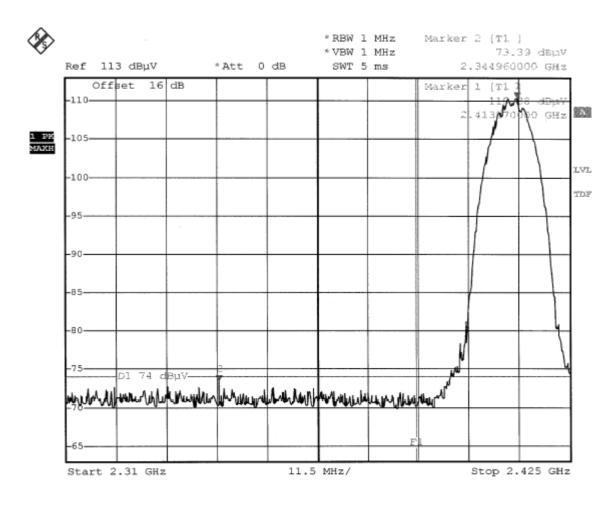




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7.2 Band-edge (Radiated method)

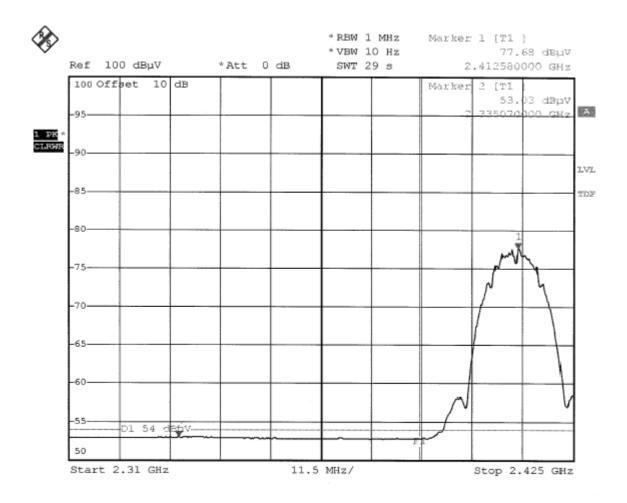
Test Mode: 802.11b (DSSS Modulation) operating mode



Comment: Band-Edge at chl F1=2390MHz Comment: Peak external ATT=16dB (EC371/EC353) 802.11b Date: 2.MAY.2005 11:08:57



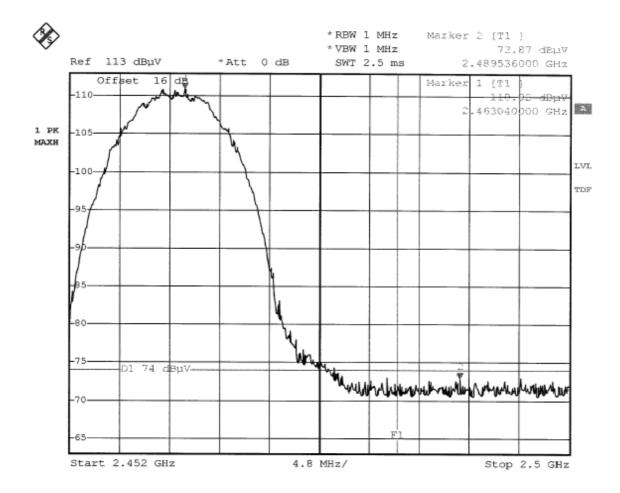
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Comment: Band-Edge at chl F1=2390MHz Comment: AV external ATT=10dB (EC371/EC353) 802.11b Date: 2.MAY.2005 11:11:02



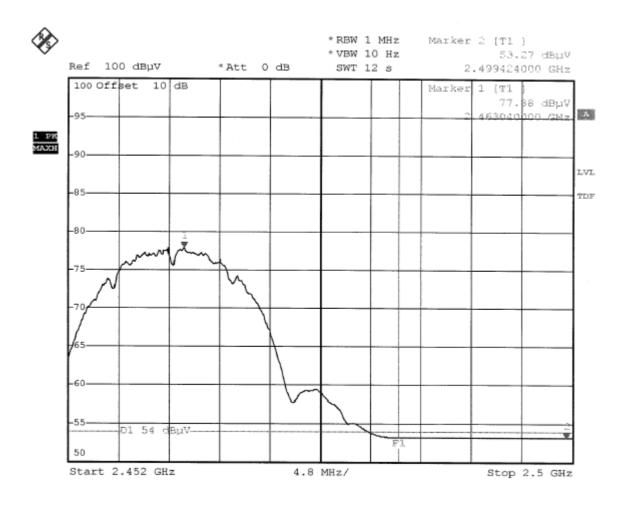
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Comment: Band-Edge at chll F1=2483.5MHz Comment: Peak external ATT=16dB (EC371/EC353) 802.11b Date: 2.MAY.2005 10:59:42



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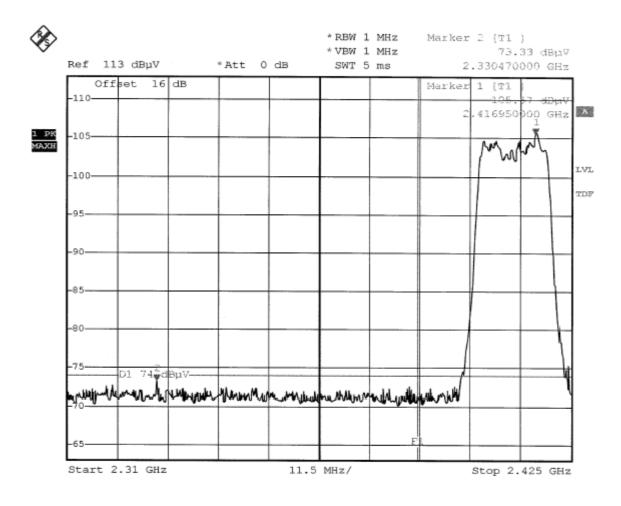


Comment: Band-Edge at chl1 F1=2483.5MHz Comment: AV external ATT=10dB (EC371/EC353) 802.11b Date: 2.MAY.2005 11:02:14



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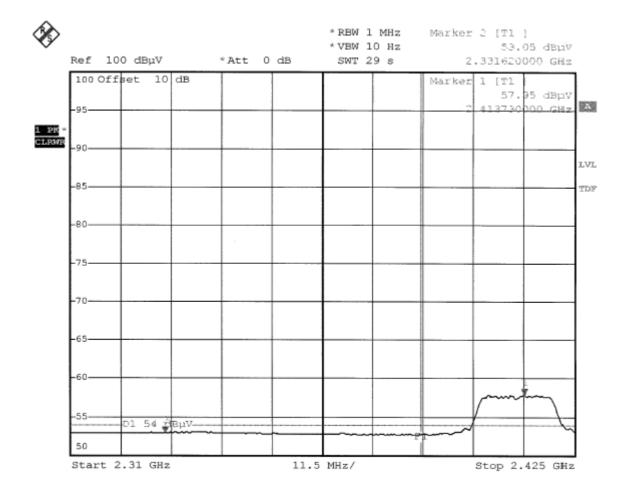




Comment: Band-Edge at chl Fl=2390MHz Comment: Peak external ATT=16dB (EC371/EC353) 802.11g Date: 2.MAY.2005 11:07:39



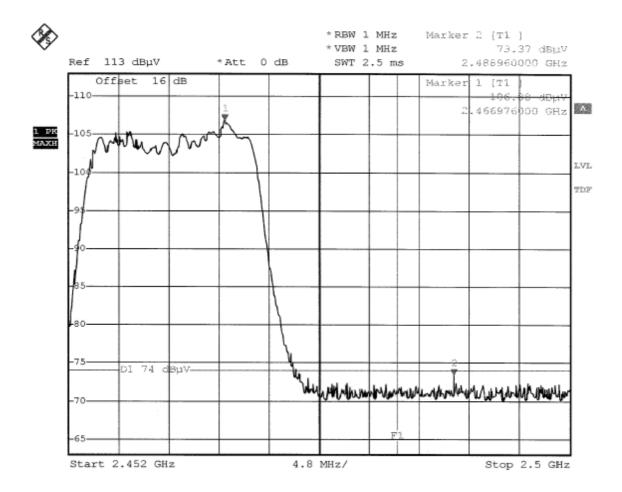
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Comment: Band-Edge at chl F1=2390MHz Comment: AV external ATT=10dB (EC371/EC353) 802.11g Date: 2.MAY.2005 11:13:43



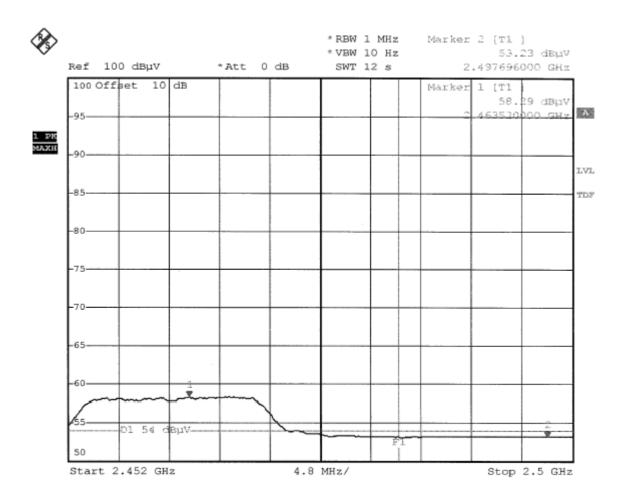
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Comment: Band-Edge at ch11 F1=2483.5MHz Comment: Peak external ATT=16dB (EC371/EC353) 802.11g Date: 2.MAY.2005 11:04:36



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Comment: Band-Edge at chl1 F1=2483.5MHz Comment: AV external ATT=10dB (EC371/EC353) 802.1lg Date: 2.MAY.2005 11:03:32 Intertek ETL SEMKO

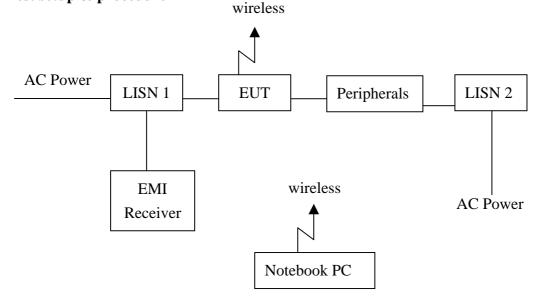
FCC ID. : MQ4WAP253

8. Power Line Conducted Emission test §FCC 15.207

8.1 Operating environment

Temperature:	23	
Relative Humidity:	60	%
Atmospheric Pressure	1023	hPa

8.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement. The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

The EUT configuration please refer to the "Conducted set-up photo.pdf".



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8.3 Emission limit

Freq.	Conducted Limit (dBuV)					
(MHz)	Q.P.	Ave.				
0.15~0.50	66 – 56*	56 - 46*				
0.50~5.00	56	46				
5.00~30.0	60	50				

*Decreases with the logarithm of the frequency.

8.4 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of conducted emission measurement is 2.6 dB.



8.5 Power Line Conducted Emission test data

The test was performed the 802.11b and 802.11g normal operating modes, the worst case was occurred at 802.11g normal operating mode.

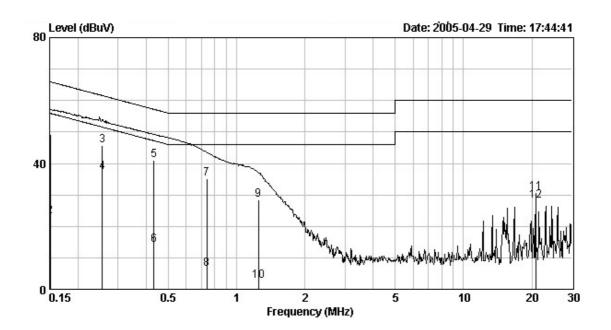
Phase:	Line
Model No.:	WAP252
Worst Case:	802.11g Normal operating mode

Frequency	Corr. Factor	Level Qp	Limit Qp	Level AV	Limit Av		rgin dB)
(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	Qp	Av
0.151	0.10	49.10	65.93	23.12	55.93	-16.83	-32.81
0.256	0.10	45.58	61.57	37.17	51.57	-15.99	-14.40
0.433	0.10	41.00	57.20	14.21	47.20	-16.20	-32.99
0.738	0.10	35.10	56.00	6.58	46.00	-20.90	-39.42
1.249	0.10	28.30	56.00	2.78	46.00	-27.70	-43.22
20.811	0.83	30.87	60.00	28.03	50.00	-29.13	-21.97

Remark:

1. Corr. Factor (dB)= LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = Level (dBuV) - Limit (dBuV)





Phase:	Neutral
Model No.:	WAP252
Test Condition:	802.11g Normal operating mode

Frequency	Corr. Factor	Level Qp	Limit Qp	Level AV	Limit Av	Margin (dB)	
(MHz)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	Qp	Av
0.151	0.10	48.98	65.93	22.92	55.93	-16.95	-33.01
0.258	0.10	45.26	61.50	36.07	51.50	-16.24	-15.43
0.436	0.10	39.40	57.13	14.14	47.13	-17.73	-32.99
0.738	0.10	33.76	56.00	6.10	46.00	-22.24	-39.90
1.249	0.10	27.64	56.00	2.51	46.00	-28.36	-43.49
20.808	0.62	32.60	60.00	29.20	50.00	-27.40	-20.80

Remark:

- 1. Corr. Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
- 2. Margin (dB) = Level (dBuV) Limit (dBuV)

